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ATTN:

SUBJ : EVALUATION OF MISSION C/46C

1. CAMERA B-228 WAS USED IN MISSION CI46C FLOWN ON 3 AUGUST 1966. THIS IS THE FIRST OPERATIONAL MISSION FLOWN WITH THE NEW LIGHT WEIGHT "B" CAMERA. THE FILM FROM THIS MISSION WAS PROCESSED AT A FIELD PROCESSING SITE.

2. ORIGINAL NEGATIVE:

A. THE EXPOSURE WAS ADEQUATE THROUGHOUT THE MISSION. HOWEVER, THE NEGATIVES ARE CONSIDERABLY MORE CONTRASTY THAN IS USUAL ON THESE MISSIONS. IN ADDITION, SPECULAR REFLECTION FROM WATER OR WET TERRAIN CAUSED HEAVY FLARE PATTERNS ON MOST FRAMES EXPOSED IN THE VERTICAL AND "IL" POSITIONS. THE RESOLUTION IS GOOD AND IS JUDGED TO BE EQUAL TO OR SLIGHTLY BETTER THAN PREVIOUS MISSIONS FLOWN WITH THE "B" CAMERA IN THIS AREA. THE DEGRADATION OF IMAGERY,

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ASSOCIATED WITH LENS FALL-OFF AWAY FROM THE OPTICAL AXIS, IS LESS PRONOUNCED THAN ON MOST "B" CAMERAS NOW IN USE.

B. 9R SIDE: FOG ASSOCIATED WITH STATIC DISCHARGES IS MINOR BUT CONTINUOUS ALONG BOTH FILM EDGES THROUGHOUT THE MISSION. ROLLER CHATTER MARKS EXTEND ACROSS THE ENTIRE FORMAT OF MOST FRAMES THROUGHOUT THE FIRST TEN PERCENT OF THE MISSION. THE MARKS BECOME GRADUALLY LESS PRONOUNCED AND APPEAR ONLY OCCASIONALLY NEAR THE END OF THE MISSION. THERE IS A PLUS DENSITY STREAK 2.75 INCHES FROM AND PARALLEL TO THE INBOARD FILM EDGE INTERMITTENTLY THROUGHOUT THE MISSION. IT OCCASIONALLY TURNS TOWARD THE CENTER OF THE FRAME AND STOPS. THE ANOMALY CAUSES VERY LITTLE DEGRADATION. THERE IS A PLUS DENSITY STREAK AT THE OUTBOARD EDGE OF THE FORMAT NEAR THE TAKE-UP END ON ALL FRAMES OF THE MISSION. THE STREAK IS PROBABLY THE RESULT OF AN INTERNAL CAMERA REFLECTION.

C. 9L SIDE: THERE IS A MANUFACTURER'S SPLICE ON FRAME 2826. HEAT SPLICES OCCUR BETWEEN FRAMES 146/146, 296/297, AND 686/687. THREE ROWS OF MINUS DENSITY DOTS APPEAR DURING THE MISSION. TWO ROWS, ONE 5.6" AND ANOTHER 8.7" FROM THE INBOARD EDGE DISAPPEAR BY FRAME 117. THE THIRD ROW, 1.2" FROM THE INBOARD EDGE, CONTINUES THROUGHOUT THE MISSION. THE DOTS IN THE THREE ROWS OCCUR EVERY 1.7" BUT DO NOT SERIOUSLY DEGRADE THE IMAGERY. EMULSION LIFTS, AND BLISTERS, ARE PRESENT OCCASIONALLY, BUT DO NOT CAUSE SERIOUS DEGRADATION. HOWEVER, THERE ARE TWO LARGE BLISTERS IN FRAME 2826.

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THESE APPEAR TO HAVE OCCURRED BEFORE EXPOSURE, AND COULD POSSIBLY BE CAUSED BY THE MANUFACTURER'S SPLICE IN THAT FRAME. SERIOUS IMAGE DEGRADING ROLLER CHATTER APPEARS IN THE BEGINNING OF THE MISSION. THE CHATTER OCCURS AT BOTH EDGES IN ROWS, AND INTERMITTENTLY IN THE CENTER OF THE FORMAT. HALFWAY THROUGH THE MISSION, ALL BUT THE CHATTER ON THE OUTBOARD EDGE DISAPPEARS. AN IRREGULAR PLUS DENSITY STREAK, RUNNING ALONG THE LONGITUDINAL AXIS, APPEARS IN FRAME 0397. THERE IS A SIMILAR STREAK BETWEEN FRAMES 0716/0717. THESE STREAKS DO NOT SERIOUSLY DEGRADE THE IMAGERY.

D. BOTH SIDES: THE POSITION INDICATOR LAMPS ARE IMAGED ON ONLY THE FIRST 9 FRAMES OF THE MISSION. THEREAFTER, THEY APPEAR CONSISTENTLY WHEN THE CAMERA IS IN THE VERTICAL POSITIONS BUT ARE IMAGED ONLY OCCASIONALLY WHEN THE CAMERA IS IN OTHER POSITIONS. IT WAS ALSO NOTED THAT THE VERTICAL INDICATOR DOT IN THE MARGIN IS IMAGED ON EVERY FRAME THAT DOES NOT HAVE A POSITION INDICATOR IMAGE. IN ADDITION, THE VERTICAL DOT APPEARS WHEN THE CAMERA IS ACTUALLY IN THE VERTICAL POSITION AND THE V APPEARS IN THE DATA BLOCK. FRAMES 7 AND 17 CONTAIN FOG PATTERNS THAT ARE ASSUMED TO HAVE BEEN CAUSED DURING FILM LOADING. THE FIRST CLOCK COUNTER NUMBER IS 2; THE FIRST TITLED NUMBER IS 006. THE NUMBERS ON THE LAST FRAME ARE 1060 COUNTER AND 1064 TITLED.

E. THERE WERE NO MAJOR CAMERA MALFUNCTIONS OR PROCESSING ANOMALIES.

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3. POSITIVE:

A. PRINTING AND PROCESSING WERE GOOD. THE EXTREME CONTRAST OF THE ORIGINAL NEGATIVE IS NOT AS APPARENT ON THE POSITIVES.

B. PI SUITABILITY IS GOOD. THE INTERPRETERS SAID THEY COULD SEE NO MORE ON THIS MISSION THAN ON MOST GOOD MISSIONS FLOWN IN THE SAME AREA WITH THE OLDER "B" CAMERAS.

C. CLOUDS OBSCURE OR DEGRADE APPROXIMATELY 15 PERCENT OF THE MISSION.

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